

# Umar Sadat

## List of Publications by Year in descending order

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66  
papers

2,321  
citations

304743

22  
h-index

214800

47  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical feasibility of diffuse speckle contrast analysis for real-time tissue perfusion monitoring. <i>International Angiology</i> , 2022, 41, .	0.9	0
2	Estimation of the zero-pressure computational start shape of atherosclerotic plaques: Improving the backward displacement method with deformation gradient tensor. <i>Journal of Biomechanics</i> , 2022, 131, 110910.	2.1	0
3	Vascular Positron Emission Tomography and Restenosis in Symptomatic Peripheral Arterial Disease. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1008-1017.	5.3	42
4	Ferumoxytol-enhanced three-dimensional magnetic resonance imaging of carotid atheroma- a feasibility and temporal dependence study. <i>Scientific Reports</i> , 2020, 10, 1808.	3.3	13
5	The Impact of Operating Surgeon Experience, Supervised Trainee vs. Trained Surgeon, in Vascular Surgery Procedures: A Systematic Review and Meta-Analysis. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, 292-298.	1.5	7
6	Association Between Abdominal Visceral Artery Calcification and All-Cause Mortalityâ€”A Computerized Tomography Imaging-Based Longitudinal Follow-Up Study. <i>Angiology</i> , 2019, 70, 237-243.	1.8	5
7	Neovascularization in Vertebral Artery Atheromaâ€”A Dynamic Contrast-Enhanced Magnetic Resonance Imaging-Based Comparative Study in Patients with Symptomatic and Asymptomatic Carotid Artery Disease. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 2505-2512.	1.6	0
8	Assessment of Carotid Plaque Inflammation in Diabetic and Nondiabetic Patientsâ€”An Exploratory Ultrasmall Superparamagnetic Iron Oxide-Enhanced Magnetic Resonance Imaging Study. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 858-862.	1.6	8
9	Imaging pathobiology of carotid atherosclerosis with ultrasmall superparamagnetic particles of iron oxide. <i>Current Opinion in Cardiology</i> , 2017, 32, 437-440.	1.8	8
10	Influence of overlapping pattern of multiple overlapping uncovered stents on the local mechanical environment: A patient-specific parameter study. <i>Journal of Biomechanics</i> , 2017, 60, 188-196.	2.1	9
11	Assessment of Renal Injury in Patients Undergoing Elective EVAR Using Urinary Neutrophil Gelatin-Associated Lipocalin, Interleukin 18, and Retinol-Binding Protein. <i>Angiology</i> , 2017, 68, 547-552.	1.8	7
12	Magnetic Resonance Imaging-Based Assessment of Carotid Atheroma: a Comparative Study of Patients with and without Coronary Artery Disease. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 347-351.	1.6	1
13	Arterial thoracic outlet syndrome: rare and triggering. <i>Minerva Cardioangiologica</i> , 2016, 64, 637-43.	1.2	0
14	Arterial thoracic outlet syndrome: rare and triggering. <i>Minerva Cardioangiologica</i> , 2016, 64, 635-641.	1.2	0
15	Scan-Rescan Reproducibility of High Resolution Magnetic Resonance Imaging of Atherosclerotic Plaque in the Middle Cerebral Artery. <i>PLoS ONE</i> , 2015, 10, e0134913.	2.5	23
16	Acute Limb Ischemia in Pediatric Population Secondary to Peripheral Vascular Cannulation. <i>Vascular and Endovascular Surgery</i> , 2015, 49, 142-147.	0.7	20
17	Contrast Medium-Induced Acute Kidney Injury. <i>CardioRenal Medicine</i> , 2015, 5, 219-228.	1.9	791
18	Magnetic resonance imaging of atherothrombotic plaques. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1722-1726.	1.5	6

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19	N-acetylcysteine in contrast-induced acute kidney injury: clinical use against principles of evidence-based clinical medicine!. Expert Review of Cardiovascular Therapy, 2014, 12, 1-3.	1.5	11
20	How Does Juxtaluminar Calcium Affect Critical Mechanical Conditions in Carotid Atherosclerotic Plaque? An Exploratory Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 35-40.	4.2	27
21	Plaque hemorrhage in carotid artery disease: Pathogenesis, clinical and biomechanical considerations. Journal of Biomechanics, 2014, 47, 847-858.	2.1	61
22	3D high-resolution contrast enhanced MRI of carotid atheroma – a technical update. Magnetic Resonance Imaging, 2014, 32, 594-597.	1.8	15
23	Inflammation and Neovascularization Intertwined in Atherosclerosis. Circulation, 2014, 130, 786-794.	1.6	47
24	The influence of computational strategy on prediction of mechanical stress in carotid atherosclerotic plaques: Comparison of 2D structure-only, 3D structure-only, one-way and fully coupled fluid-structure interaction analyses. Journal of Biomechanics, 2014, 47, 1465-1471.	2.1	35
25	Carotid Artery Stiffness in Patients with Symptomatic Carotid Artery Disease with Contralateral Asymptomatic Carotid Artery Disease and in Patients with Bilateral Asymptomatic Carotid Artery Disease: A Cine Phase-contrast Carotid MR Study. Journal of Stroke and Cerebrovascular Diseases, 2014, 23, 743-748.	1.6	5
26	Does Ascorbic Acid Protect Against Contrast-Induced Acute Kidney Injury in Patients Undergoing Coronary Angiography. Journal of the American College of Cardiology, 2013, 62, 2167-2175.	2.8	100
27	Sequential Imaging of Asymptomatic Carotid Atheroma Using Ultrasmall Superparamagnetic Iron Oxide-enhanced Magnetic Resonance Imaging: A Feasibility Study. Journal of Stroke and Cerebrovascular Diseases, 2013, 22, e271-e276.	1.6	27
28	Radiographic Contrast-Media-Induced Acute Kidney Injury: Pathophysiology and Prophylactic Strategies. ISRN Radiology, 2013, 2013, 1-21.	1.2	26
29	Effect of Low-and High-Dose Atorvastatin on Carotid Artery Distensibility Using Carotid Magnetic Resonance Imaging – A Post-Hoc Sub Group Analysis of ATHEROMA (Atorvastatin Therapy: Tj ETQq1 1 0.784314 rgBT /Overlo 20, 46-56.	2.0	14
30	Does Oral N-Acetylcysteine Reduce Contrast-Induced Renal Injury in Patients With Peripheral Arterial Disease Undergoing Peripheral Angiography? A Randomized-Controlled Study. Angiology, 2011, 62, 225-230.	1.8	35
31	Non-uniform shrinkage for obtaining computational start shape for in-vivo MRI-based plaque vulnerability assessment. Journal of Biomechanics, 2011, 44, 2316-2319.	2.1	15
32	Contrast-induced nephropathy: do statins offer protection?. Current Opinion in Cardiology, 2011, 26, 334-337.	1.8	5
33	Utility of Magnetic Resonance Imaging-Based Finite Element Analysis for the Biomechanical Stress Analysis of Hemorrhagic and Non-Hemorrhagic Carotid Plaques. Circulation Journal, 2011, 75, 884-889.	1.6	15
34	Impact of plaque haemorrhage and its age on structural stresses in atherosclerotic plaques of patients with carotid artery disease: an MR imaging-based finite element simulation study. International Journal of Cardiovascular Imaging, 2011, 27, 397-402.	1.5	27
35	Normalized Wall Index Specific and MRI-Based Stress Analysis of Atherosclerotic Carotid Plaques - A Study Comparing Acutely Symptomatic and Asymptomatic Patients -. Circulation Journal, 2010, 74, 2360-2364.	1.6	27
36	Biomechanical structural stresses of atherosclerotic plaques. Expert Review of Cardiovascular Therapy, 2010, 8, 1469-1481.	1.5	39

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37	Molecular MRI of Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2010, 3, 4-11.	0.6	2
38	Three-dimensional volumetric analysis of atherosclerotic plaques: a magnetic resonance imaging-based study of patients with moderate stenosis carotid artery disease. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 897-904.	1.5	17
39	Remote Ischemic Preconditioning for Renal Protection During Elective Open Infrarenal Abdominal Aortic Aneurysm Repair: Randomized Controlled Trial. <i>Vascular and Endovascular Surgery</i> , 2010, 44, 334-340.	0.7	83
40	Multi-scale segmentation of carotid artery wall in MRI images. , 2010, , .		2
41	Finite element analysis of vulnerable atherosclerotic plaques: a comparison of mechanical stresses within carotid plaques of acute and recently symptomatic patients with carotid artery disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 286-289.	1.9	32
42	Iron Oxide Particles for Atheroma Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1001-1008.	2.4	125
43	Remote Ischemic Preconditioning for Renal and Cardiac Protection During Endovascular Aneurysm Repair: A Randomized Controlled Trial. <i>Journal of Endovascular Therapy</i> , 2009, 16, 680-689.	1.5	109
44	CD36 modulation in the subintimal trapping and LDL-mediated migration of macrophages. <i>Expert Review of Cardiovascular Therapy</i> , 2009, 7, 587-590.	1.5	1
45	Noninvasive imaging of atheromatous carotid plaques. <i>Nature Reviews Cardiology</i> , 2009, 6, 200-209.	13.7	14
46	Atheromatous plaque hemorrhage: early detection and its impact on the management of patients with carotid artery disease. <i>Expert Review of Cardiovascular Therapy</i> , 2009, 7, 25-27.	1.5	0
47	Utility of high resolution MR imaging to assess carotid plaque morphology: A comparison of acute symptomatic, recently symptomatic and asymptomatic patients with carotid artery disease. <i>Atherosclerosis</i> , 2009, 207, 434-439.	0.8	74
48	Signaling pathways of cardioprotective ischemic preconditioning. <i>International Journal of Surgery</i> , 2009, 7, 490-498.	2.7	25
49	Endovascular vs open repair of acute abdominal aortic aneurysmsâ€”A systematic review and meta-analysis. <i>Journal of Vascular Surgery</i> , 2008, 48, 227-236.	1.1	87
50	Splenic artery aneurysms in pregnancy â€” A systematic review. <i>International Journal of Surgery</i> , 2008, 6, 261-265.	2.7	156
51	Impact of the Type of Anesthesia on Outcome after Elective Endovascular Aortic Aneurysm Repair: Literature Review. <i>Vascular</i> , 2008, 16, 340-345.	0.9	20
52	Carotid Artery Stenosis: Does the World Wide Web Provide Sufficient Information to These Patients?. <i>Vascular</i> , 2008, 16, 91-94.	0.9	1
53	Endovascular Repair of a Penetrating Thoracic Aortic Ulcer Presenting With Left Recurrent Laryngeal Nerve Palsy. <i>Vascular and Endovascular Surgery</i> , 2008, 41, 556-558.	0.7	4
54	Surgical Complications in a Hemophilia Patient With Factor VIII Inhibitor and Their Endovascular Management. <i>Vascular and Endovascular Surgery</i> , 2008, 42, 168-172.	0.7	4

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55	Thoracic outlet syndrome: an overview. British Journal of Hospital Medicine (London, England: 2005), 2008, 69, 260-263.	0.5	5
56	Caval interruption: methods and indications. British Journal of Hospital Medicine (London, England:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	2
57	Cardioprotection by ischemic postconditioning during surgical procedures. Expert Review of Cardiovascular Therapy, 2008, 6, 999-1006.	1.5	7
58	Endovascular Management of an Arteriovenous Fistula and Concomitant Pseudoaneurysm in an Intravenous Drug Abuser. Vascular and Endovascular Surgery, 2008, 42, 293-295.	0.7	3
59	Current management of varicose veins. British Journal of Hospital Medicine (London, England: 2005), 2008, 69, 214-217.	0.5	4
60	Endovascular management of pseudoaneurysms following lower limb orthopedic surgery. American Journal of Orthopedics, 2008, 37, E99-E102.	0.7	16
61	Mediastinal extension of a complicated pancreatic pseudocyst; a case report and literature review. Journal of Medical Case Reports, 2007, 1, 12.	0.8	15
62	Peripheral arterial ischemia by a primary lung tumour invading left atrium. Lung Cancer, 2007, 57, 237-239.	2.0	23
63	Angioleiomyoma of the small intestine â€“ a rare cause of gastrointestinal bleeding. World Journal of Surgical Oncology, 2007, 5, 129.	1.9	9
64	Superior epigastric artery pseudoaneurysm- a rare complication of chest drain insertion in coronary artery bypass grafting. Journal of Cardiothoracic Surgery, 2007, 2, 21.	1.1	4
65	Emergency endovascular repair of ruptured visceral artery aneurysms. World Journal of Emergency Surgery, 2007, 2, 17.	5.0	6
66	Educational and Training Resources for Doctors and Students. Annals of the Royal College of Surgeons of England, 2006, 88, 325-326.	0.6	0